

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058290 A2

(51) International Patent Classification⁷: **A61K 31/00**

(21) International Application Number:
PCT/EP2004/014000

(22) International Filing Date: 9 December 2004 (09.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03029122.3 18 December 2003 (18.12.2003) EP

(71) Applicant (for all designated States except US): DSM
IP ASSETS B.V. [NL/NL]; Het Overloon 1, NL-6411 Te
Heerlen (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BARELLA, Luca
[CH/CH]; Hofstetterstrasse 3, CH-4054 Basel (CH). RIM-
BACH, Gerald [DE/DE]; Olshausenstrasse 22, 24118 Kiel
(DE).

(74) Agents: GROSSNER, Lutz et al.; c/o DSM Nutritional
Products Ltd., Wurmisweg 576, CH-4303 Kaiseraugst
(CH).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: USE OF VITAMIN E

(57) Abstract: Vitamin E is useful for facilitating the synchronization of circadian rhythm in humans, especially for treatment or prevention of jet lag.



WO 2005/058290 A2